PAPERLESS ACQUISITION FOR THE NEW MILLENNIUM: TOWARDS A UNIFIED ARMY CITIS APPROACH

Presented to
CONOPS for CIDS Workshop
8 September 1999
by
Edward Dlugosz, Technical Director,
System Resources Corporation
Subsidiary of Titan Corporation

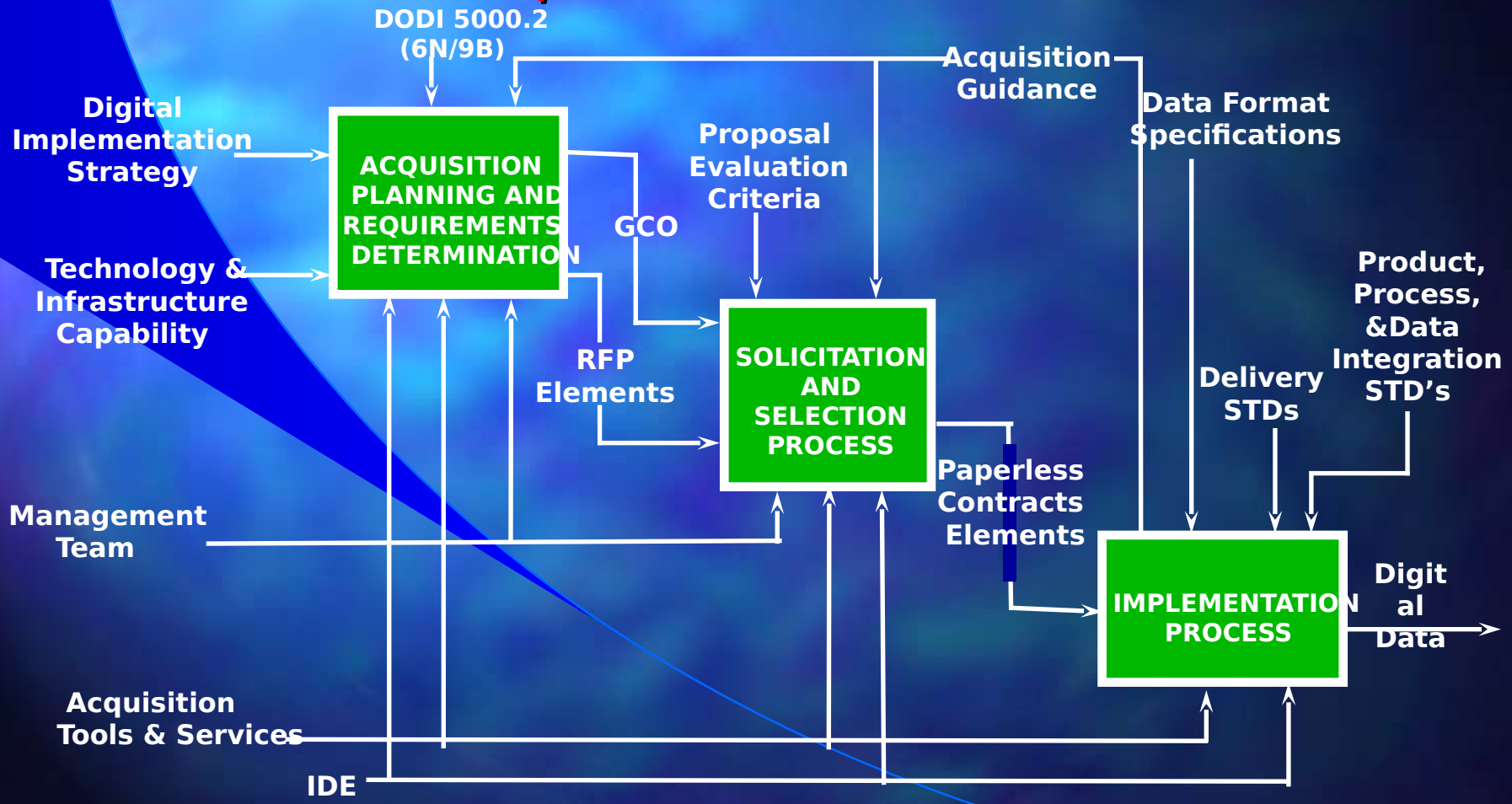
Contractor Integrated Technical Information Services (CITIS)

OUTLINE

- ★ PAPERLESS ACQUISITION
  - Acquisition planning and requirements determination.
  - Solicitation and source selection process.
  - Implementation processes.
- CITIS STRATEGIES
- LESSONS LEARNED
- SUMMARY

PAPERLESS ACQUISITION

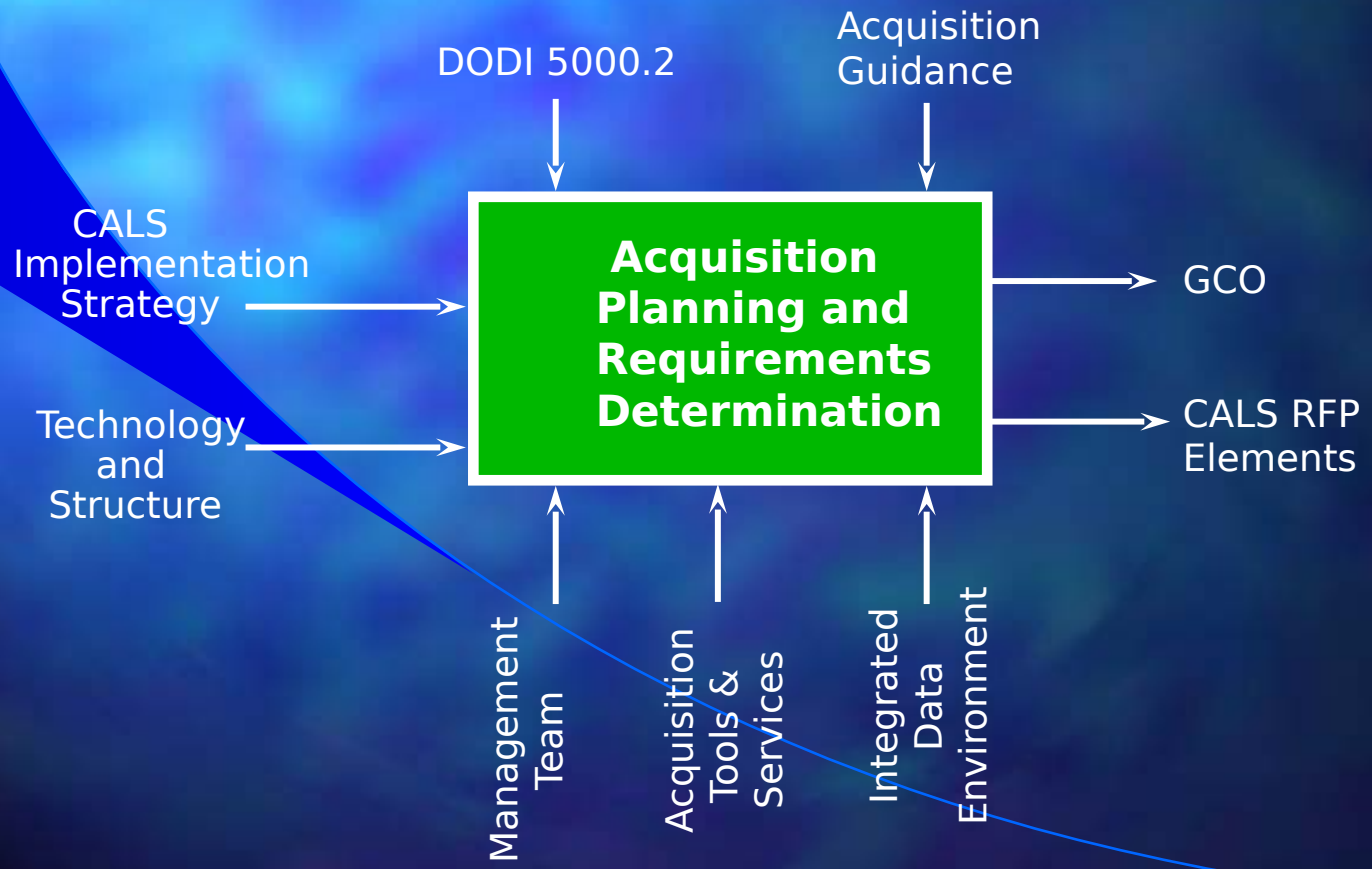
Acquisition Process



Acquisition of Defense System Data in CALS Format Is Part of the of the Total Acquisition Process

PAPERLESS ACQUISITION

Acquisition Planning and Requirements Determinatio



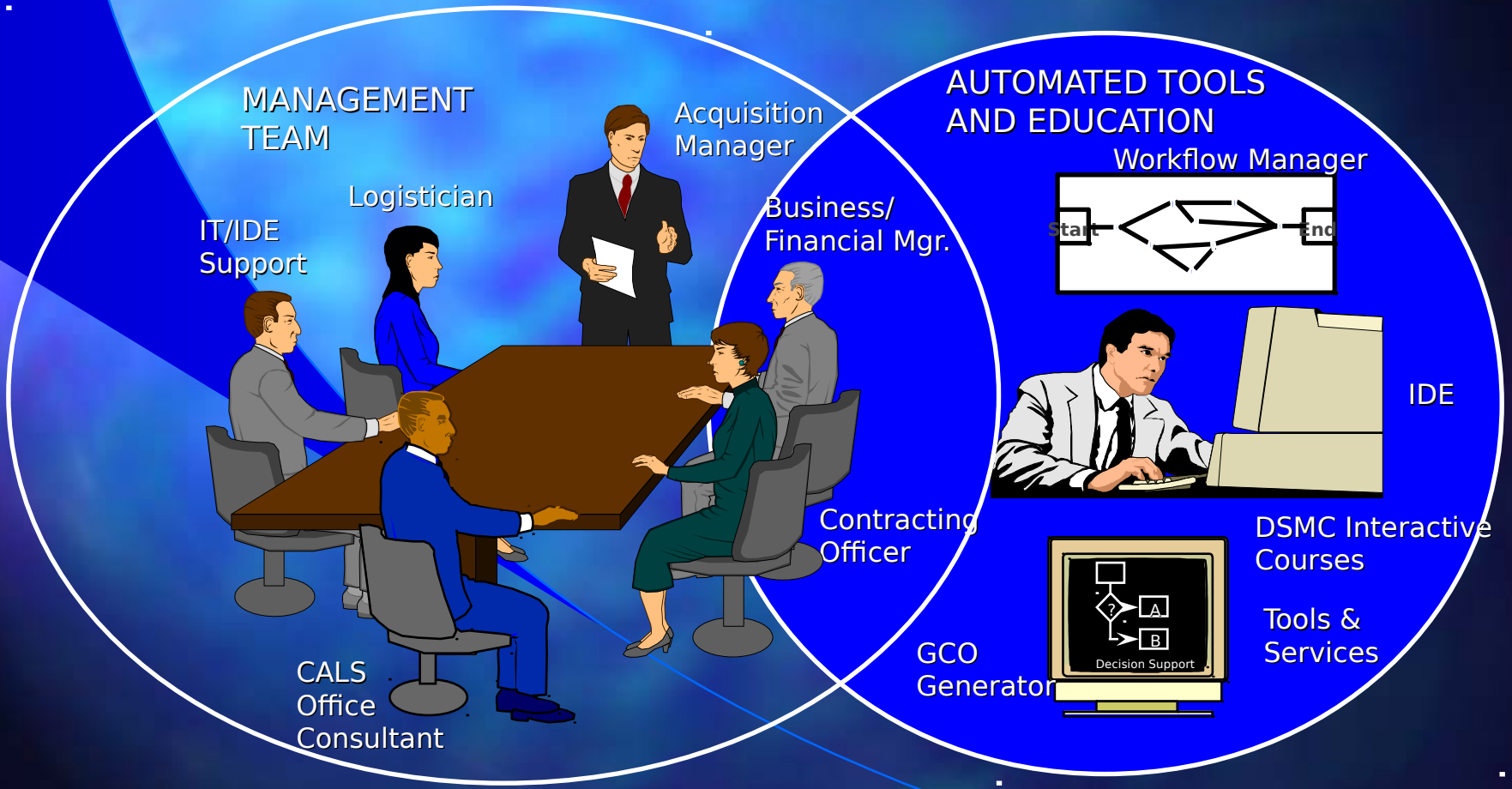
PAPERLESS ACQUISITION

Acquisition Planning and Requirements Determination

- Acquisition Guidance:
  - ★ Defense Acquisition Deskbook (D.A.D.)
  - Joint Services CALS Reference Toolkit
  - PM's Desktop Guide for CALS Implementation
  - MIL-STD-974 (CITIS)
  - Service and Site-Specific Guidance
    - ★ Directives and Implementation Plans
    - Tools and Services

PAPERLESS ACQUISITION

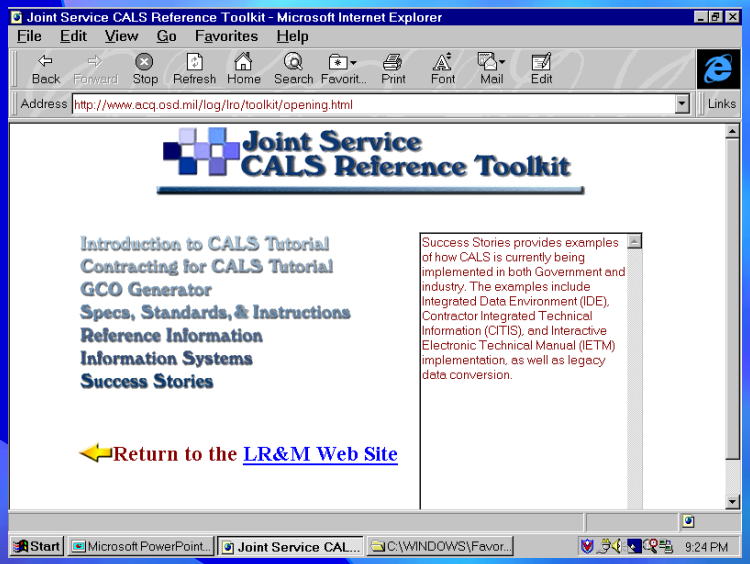
Acquisition Planning Support Mechanisms



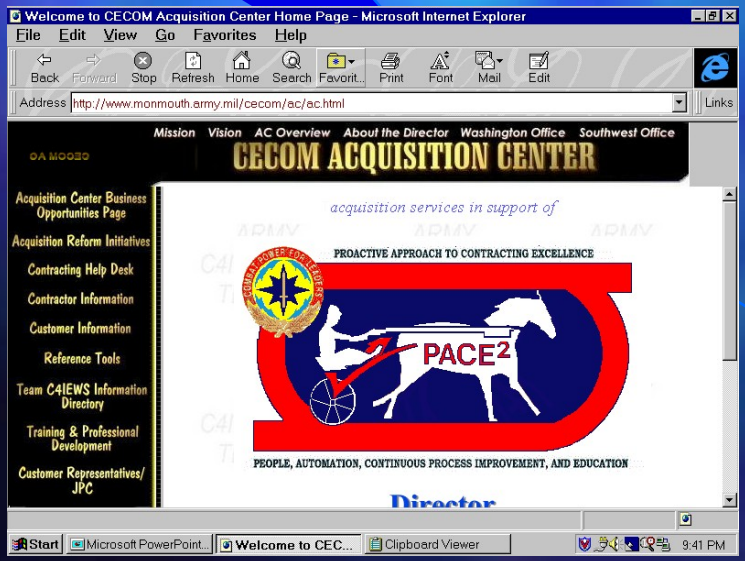
INTEGRATED PRODUCT & PROCESS DEVELOPMENT (IPPD) TEAMING

PAPERLESS ACQUISITION

Acquisition Tools and Services


Joint Service CALS Reference Toolkit - Microsoft Internet Explorer
Joint Service CALS Reference Toolkit
Introduction to CALS Tutorial
Contracting for CALS Tutorial
GCO Generator
Specs, Standards, & Instructions
Reference Information
Information Systems
Success Stories
Success Stories provides examples of how CALS is currently being implemented in both Government and industry. The examples include Integrated Data Environment (IDE), Contractor Integrated Technical Information (CITIS), and Interactive Electronic Technical Manual (IETM) implementation, as well as legacy data conversion.
Return to the LR&M Web Site

DoD GCO Generator - Microsoft Internet Explorer
Government Concept of Operations
What is a GCO?
GCO Development Process
About This Tool
Download the GCO Generator
Toolkit Main Menu
Click one of the topics above to review the Government Concept of Operations and the GCO Generator. The graphic at the bottom of this page will return you to the Main Menu of the Toolkit.
Toolkit Main Menu


Welcome to CECOM Acquisition Center Home Page - Microsoft Internet Explorer
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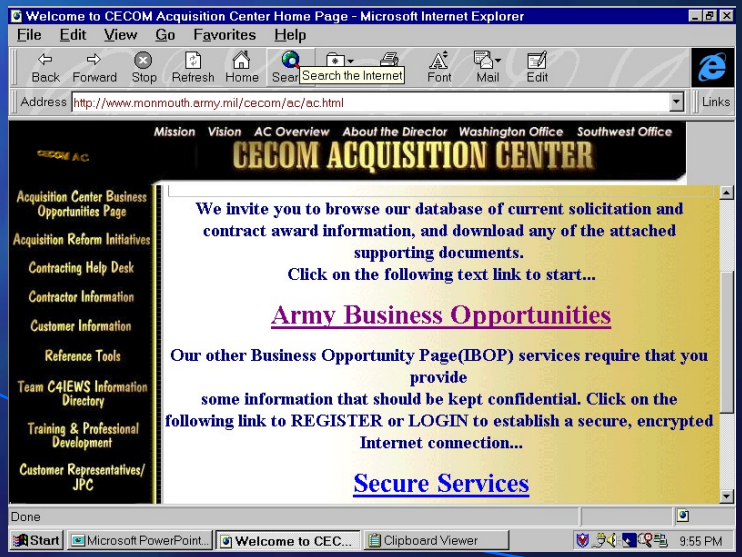
CECOM ACQUISITION CENTER
Acquisition Center Business Opportunities Page
Acquisition Reform Initiatives
Contracting Help Desk
Contractor Information
Customer Information
Reference Tools
Team C4IEWS Information Directory
Training & Professional Development
Customer Representatives/ JPC
acquisition services in support of
PROACTIVE APPROACH TO CONTRACTING EXCELLENCE
PACE2
PEOPLE, AUTOMATION, CONTINUOUS PROCESS IMPROVEMENT, AND EDUCATION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We invite you to browse our database of current solicitation and contract award information, and download any of the attached supporting documents.
Click on the following text link to start...
Army Business Opportunities
Our other Business Opportunity Page(IBOP) services require that you provide
some information that should be kept confidential. Click on the following link to REGISTER or LOGIN to establish a secure, encrypted Internet connection...
Secure Services

PAPERLESS ACQUISITION

Selected References URLs:

- *Defense Acquisition Deskbook*
  http://www.deskbook.osd.mil
- *Joint Services CALS Reference Toolkit*
  - *GCO Generator*
  - *Contracting for CALS Tutorial (DSMC)*

  http://www.acq.osd.mil/log/lro/toolkit/
- *CECOM Acquisition Center*
  - *http://www.monmouth.army.mil/cecom/ac/ac.html*
- *CECOM Business Opportunity Page*
  - *Http://www.monmouth.army.mil/cecom/ac/ac.html*
- *Electronic Commerce Resource Center*
  http:// www.ecrc.ctc.com

PAPERLESS ACQUISITION

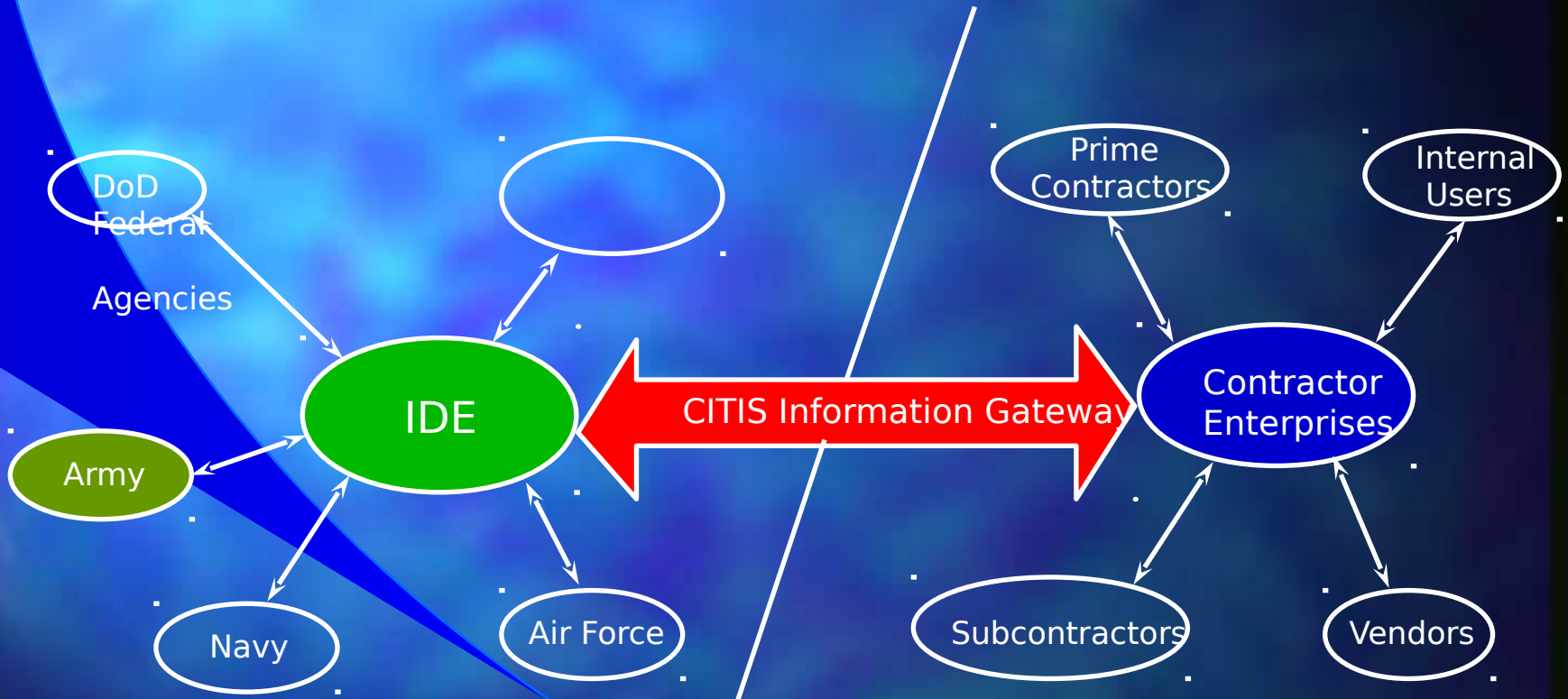
Government Concept of Operations (GCO)

Assists Acquisition Manager in determining:

- *Data users, data types, frequency of use, and timeliness of data access delivery.*
- *Data use and review/approval processes to support life cycle functions.*
- *Users' locations and primary functions in support of the defense system.*
- *Data interchange requirements (format, media, standards, and telecommunications).*
- *Security, access authorizations, and restrictions; data rights, data stewardship, and data ownership.*
- *Hardware and software systems to manage and use the data [IDE/CITIS].*

CITIS

Integral Part of the Integrated Data Environment



CITIS Provides the Electronic Conduit Between Contractor Enterprises and the Government

PAPERLESS ACQUISITION

GCO Process

IDENTIFY

1. IDENTIFY WHAT TYPES OF DATA ARE REQUIRED
2. IDENTIFY WHO WILL USE THE DATA
3. IDENTIFY HOW THE USER WILL USE THE DATA
4. IDENTIFY THE USERS' INFRASTRUC-TURE
5. IDENTIFY TYPE OF DATA DELIVERABLES

DETERMINE

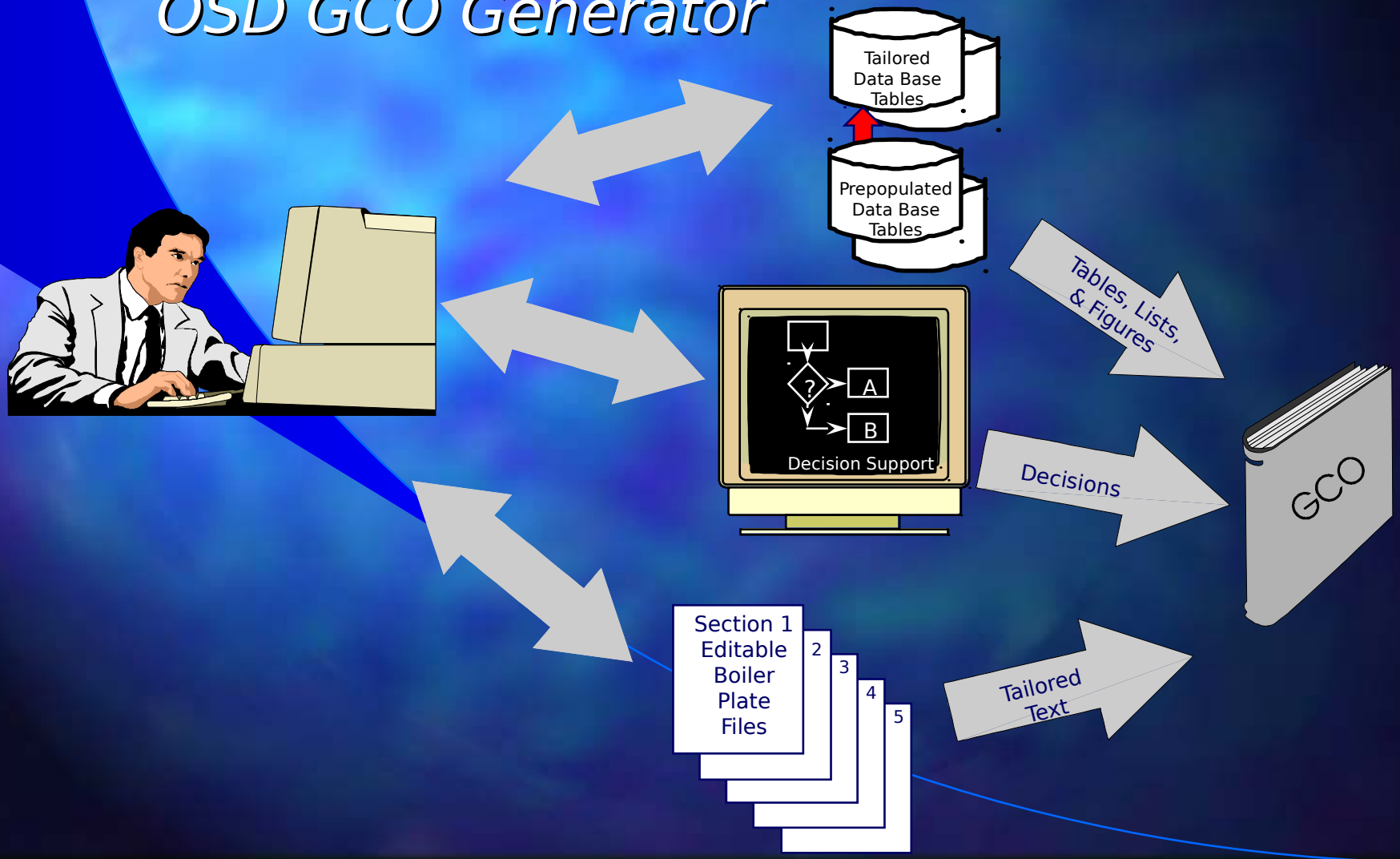
6. DETERMINE THE REQUIRED DATA FORMAT
7. DETERMINE THE DATA INTERCHANGE STANDARDS
8. DETERMINE MECHANISMS/ MEDIA FOR DATA DELIVERY/ACCESS (CITIS)

PAPERLESS ACQUISITION

Manual GCO Generation

PAPERLESS ACQUISITION

OSD GCO Generator



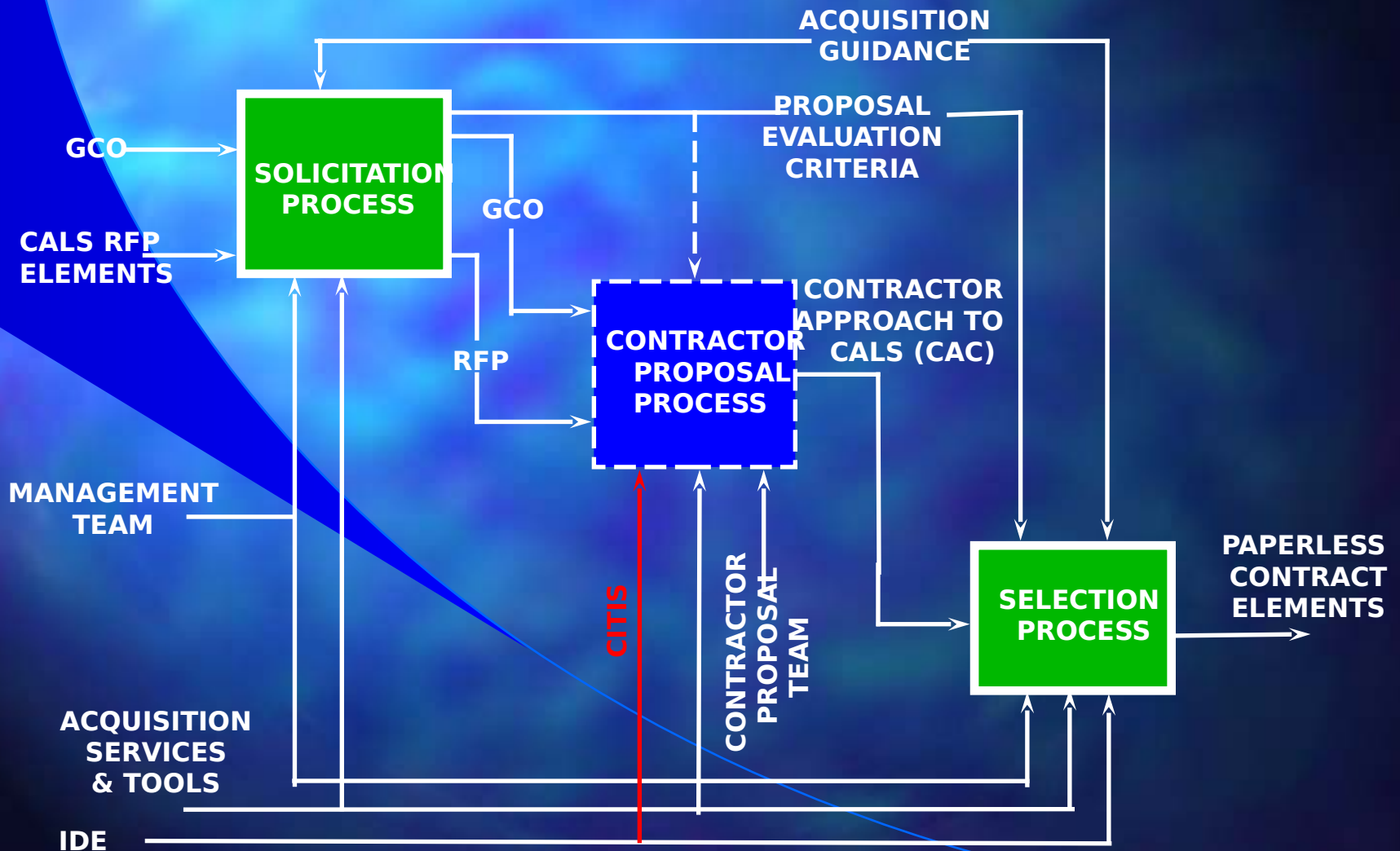
PAPERLESS ACQUISITION

CALS Language in an RFP or an ARP

U.S. Army CALS Implementation Plan, Contracting for CALS Tutorial (DSMC), and MIL-HDBK-59B Provides Guidance and Sample Language

PAPERLESS ACQUISITION

Solicitation and Selection Process



PAPERLESS ACQUISITION

CRs/DRs
TDP
GCO
RFP

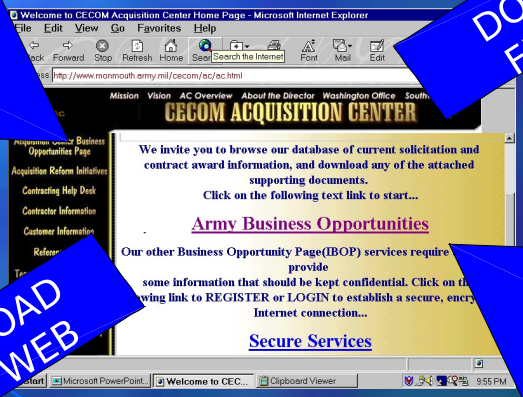
Gov't. Contracting Officer

Contractor's Proposal Team

POST TO WEB

DOWNLOAD FROM WEB

IBOP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provide
some information that should be kept confidential. Click on th
wing link to REGISTER or LOGIN to establish a secure, encry
Internet connection...
Secure Services

DOWNLOAD FROM WEB

POST TO WEB

Responses
Inquiries
CAC
Proposal

Acq Mgmt Team/ Gov't. SSEB

Contractor's Contracting Officer

CITIS
Contractor's Approach to CALS (CAC*)

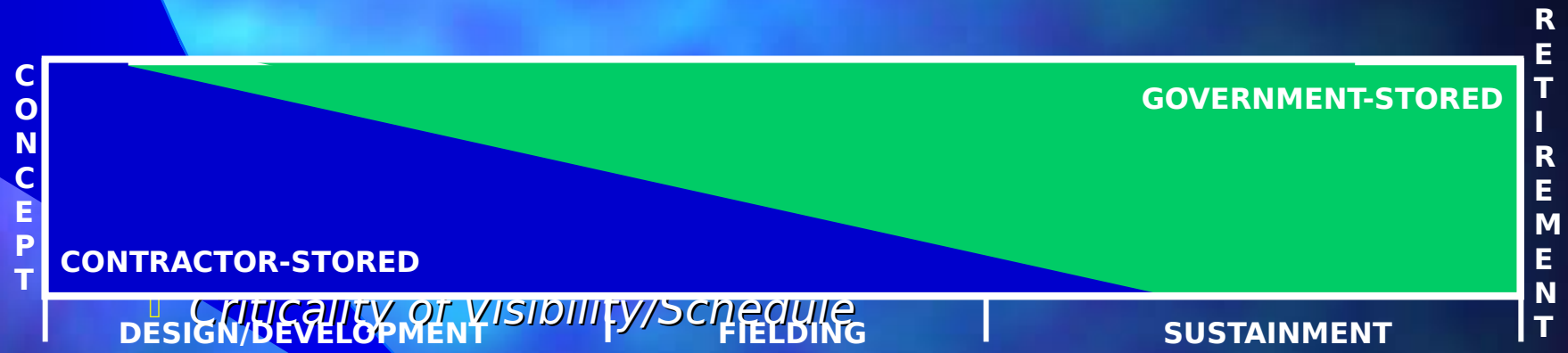
CAC should respond to the GCO/SOW and include:

- ★ *Contractor's approach and experiences in regard to digital information.*
- *Formal procedures for integrating applications and data bases.*
- *Contractor's approach to CITIS.*
- *Statement of the plan's purpose and scope.*
- *CALS program management.*
- *CITIS system test and evaluation.*
- *Information system description.*
- *Data protection and integrity.*

**CAC has had many names: Contractors IDE/Implementation Concept, CALSIP, SPI etc., but they all essentially mean the same.*

CITIS Planning & Evaluation Considerations

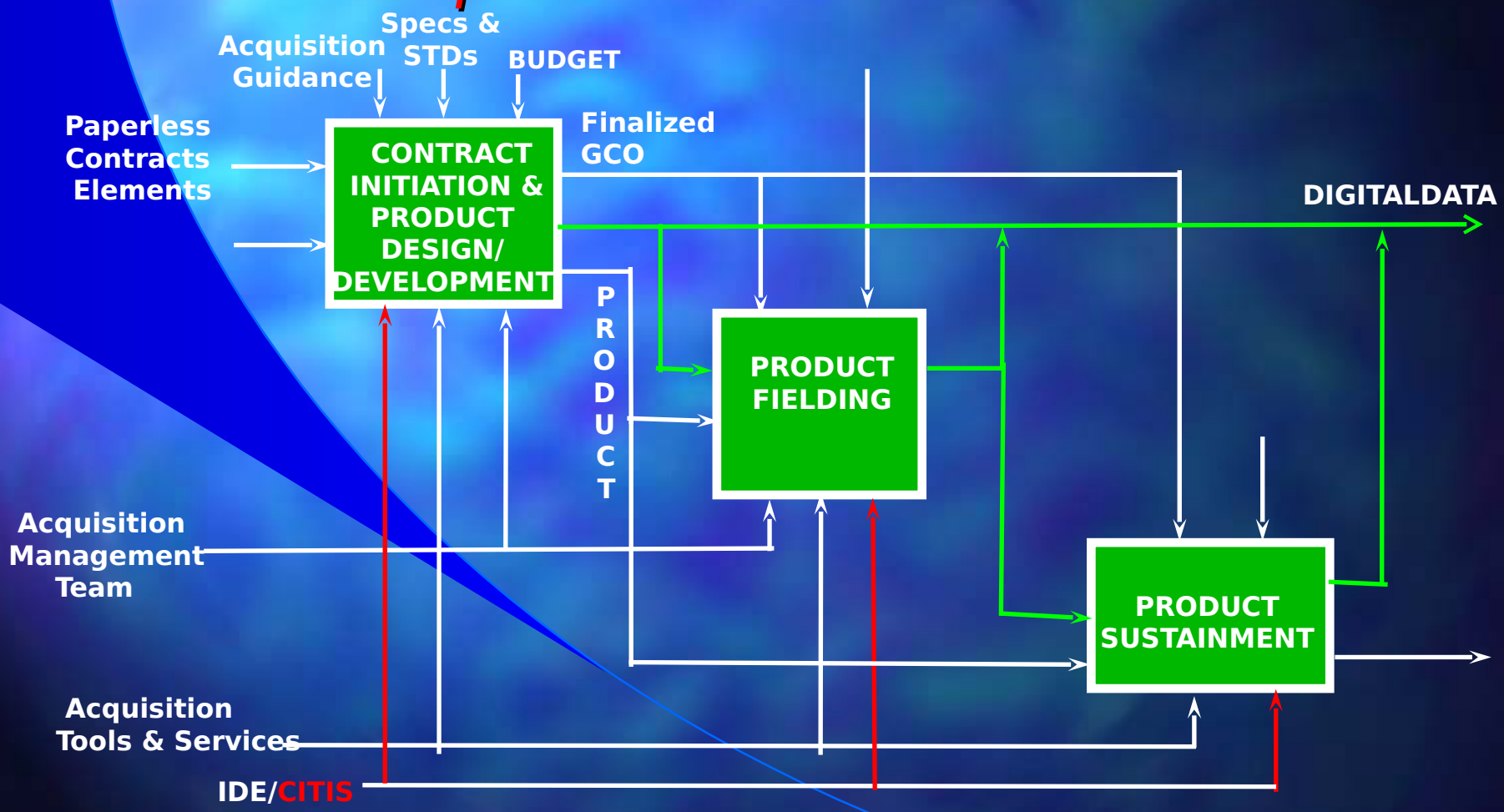
- Phase of Acquisition Life Cycle
  - Initial Procurement
  - Reprocurement of Spares/Items/System



- Criticality or Visibility/Schedule
- Volatility/Frequency/Quantity of Data
- Single or Multiple Contracts/Vendors
- Availability of Mature IDE and Tools

PAPERLESS ACQUISITION

Implementation Process



Each Activity in the Process has a Complementary Government and Contractor Role and Responsibility

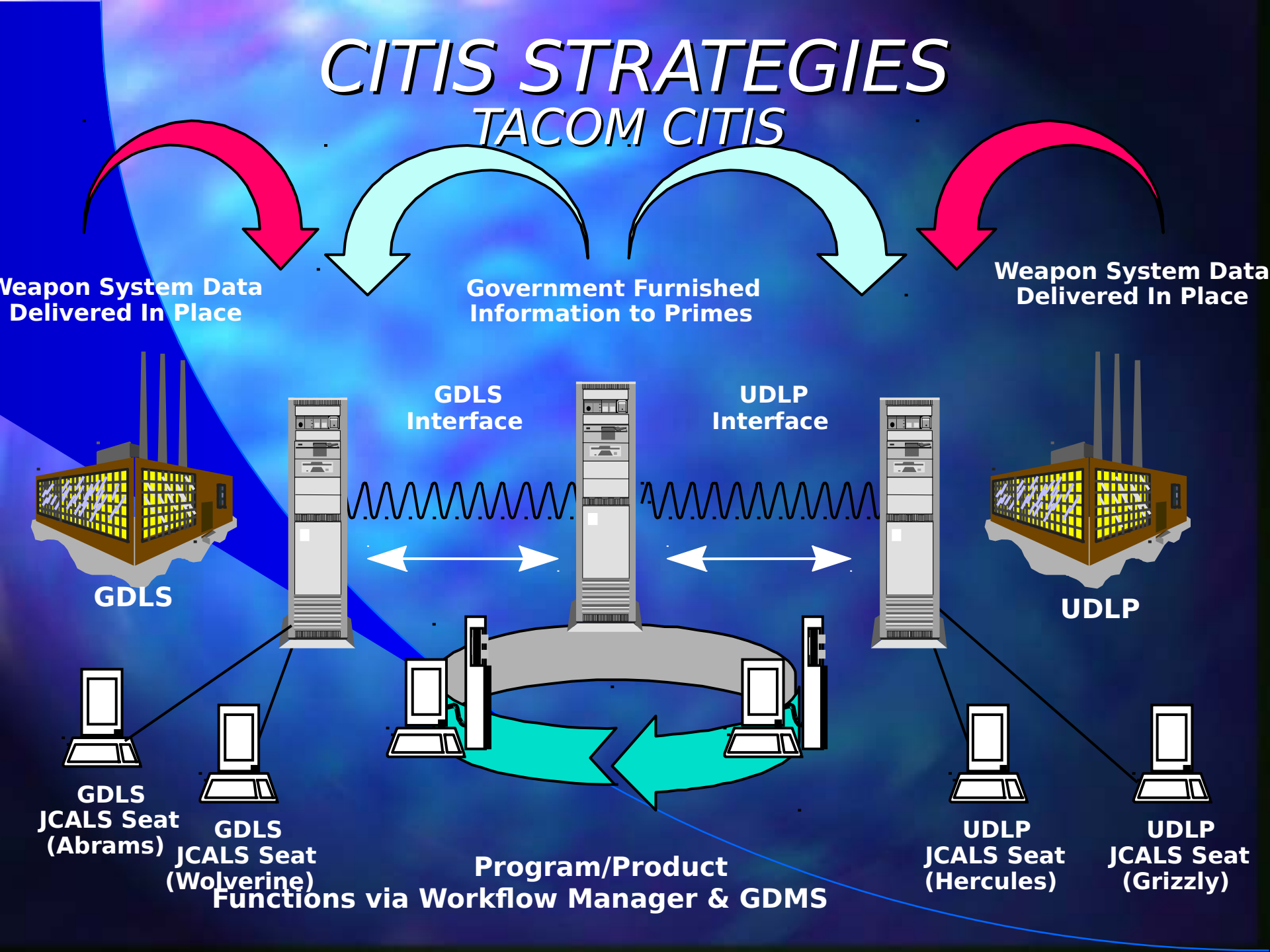
CITIS STRATEGIES

TACOM CITIS Initiatives:

- ★ *CMS/M1A1 CITIS*
  - *Servers operating at Detroit Arsenal and CITIS Servers operating at GDLS and UDLP*
  - *Workflow among ACALA, ARDEC, & TACOM*
- *Electronic Contract Folderization (ECF)*
  - *Mimicked Packaging & Movement of Contract Info in Folders Using JCALS Workfolders/Workflow*
  - *DLA-originated CITIS for Small Purchases*
- *Joint Electronic Folderization (JEF)*
  - *More Generic Version of ECF*
  - *Expansion to Provisioning and fuller Contracting*

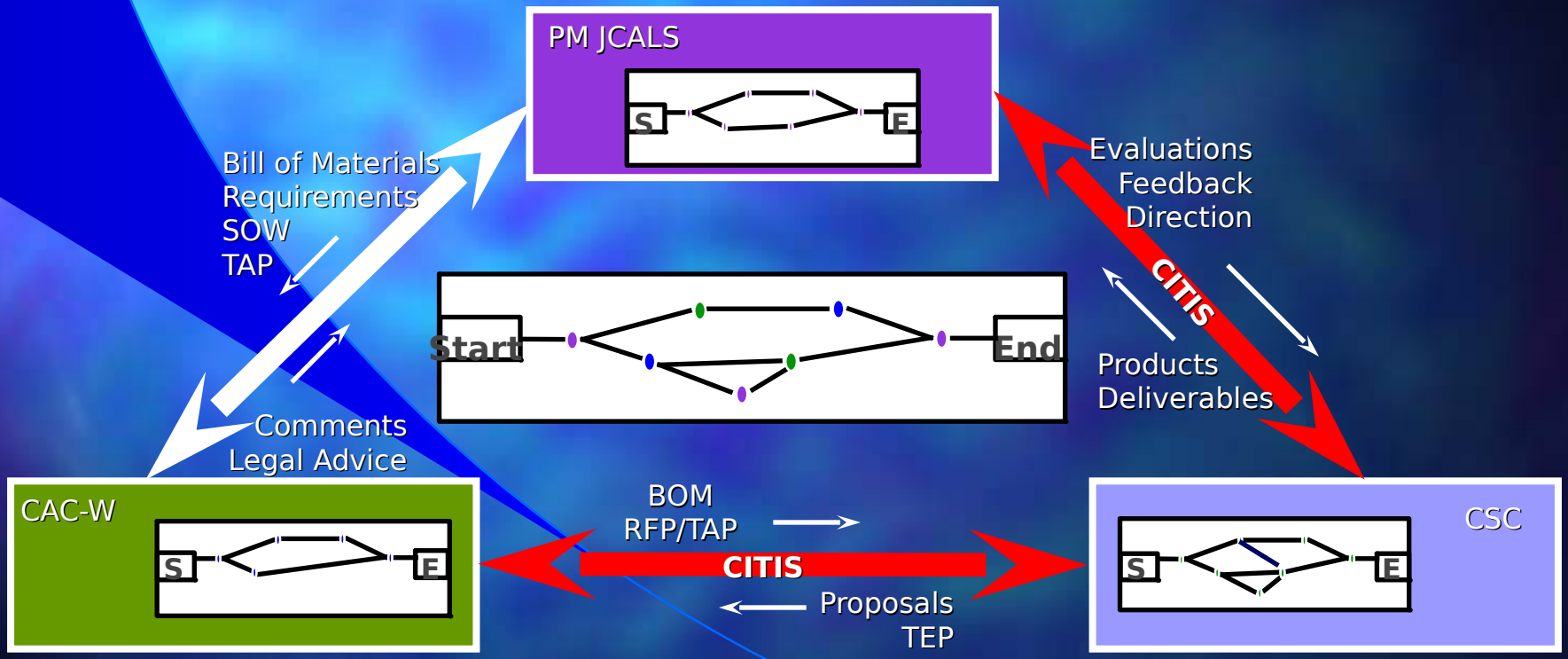
CITIS STRATEGIES

TACOM CITIS



CITIS STRATEGIES

PM JCALS Contracting CITIS using JCALS



PM JCALS Will Employ Its Own System to Implement Contracting Proces
Among Participants Using Workflow and GDMS

DD250 Process

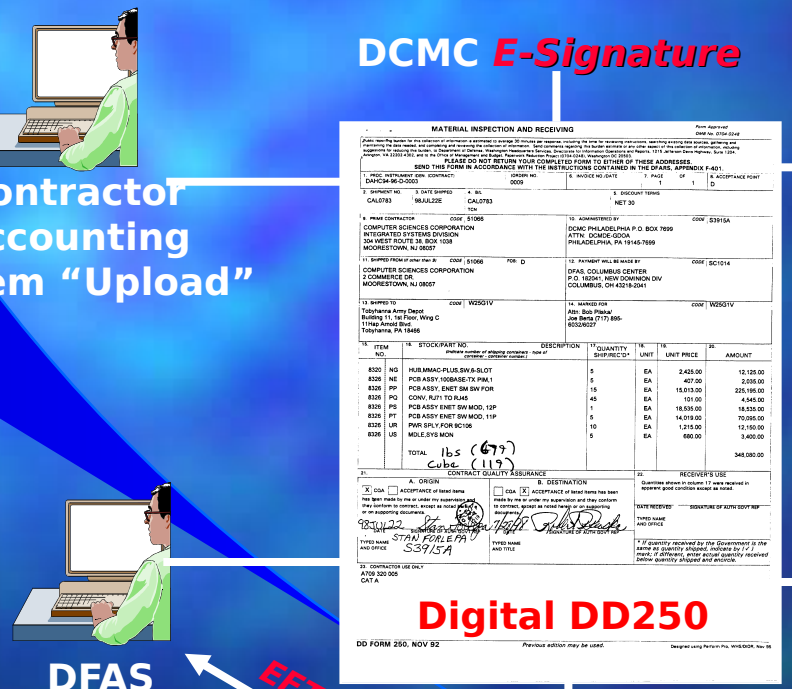
Workflow & Electronic Signature Enabled

Workflow

DCMC *E-Signature*

Contractor Accounting System "Upload"

Site Receipt Block 21a *E-Signature*


MATERIAL INSPECTION AND RECEIVING

Form Approved OMB No. 0704-0248

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES.
SEND THIS FORM IN ACCORDANCE WITH THE INSTRUCTIONS CONTAINED IN THE DFARS, APPENDIX F-401.

1. PROC. INSTRUMENT IDEN. (CONTRACT): DAHC94-96-D-0003 | ORDER NO.: 0009 | 6. INVOICE NO./DATE | 7. PAGE: 1 | OF: 1 | 8. ACCEPTANCE POINT: D

2. SHIPPED NO.: CAL0783 | 3. DATE SHIPPED: 98JUL22E | 4. B/L: CAL0783 TCN | 5. DISCOUNT TERMS: NET 30

9. PRIME CONTRACTOR: CODE S1066
COMPUTER SCIENCES CORPORATION
INTEGRATED SYSTEMS DIVISION
304 WEST ROUTE 38, BOX 1038
MOORESTOWN, NJ 08057

10. ADMINISTERED BY: CODE S3915A
DCMC PHILADELPHIA P.O. BOX 7699
ATTN: DCMDE-GOOA
PHILADELPHIA, PA 19145-7699

11. SHIPPED FROM (if other than 9): CODE S1066 FOB: D
COMPUTER SCIENCES CORPORATION
2 COMMERCE DR.
MOORESTOWN, NJ 08057

12. PAYMENT WILL BE MADE BY: CODE SC1014
DFAS, COLUMBUS CENTER
P.O. 182241, NEW DOMINION DIV
COLUMBUS, OH 432-18-2241

13. SHIPPED TO: CODE W25Q1V
Tobyhanna Army Depot
Building 11, 1st Floor, Wing C
11Hap Arnold Blvd
Tobyhanna, PA 18466

14. MARKED FOR: CODE W25Q1V
Attn: Bob Pilaka/
Joe Berta (717) 895-
8232/8227

15. ITEM NO.		16. STOCK/PART NO. / DESCRIPTION (If Multiple number of shipping containers - type of container - container number)	17. QUANTITY SHIPPED/RECD*	18. UNIT	19. UNIT PRICE	20. AMOUNT
8320	NG	HUB,MMAC-PLUS,SW,8-SLOT	5	EA	2,425.00	12,125.00
8326	NE	PCB ASSY,100BASE-TX PIM,1	5	EA	407.00	2,035.00
8326	PP	PCB ASSY, ENET SM SW FOR	15	EA	15,013.00	225,195.00
8326	PQ	CONV, RJ71 TO RJ45	45	EA	101.00	4,545.00
8326	PS	PCB ASSY ENET SW MOD, 12P	1	EA	18,535.00	18,535.00
8326	PT	PCB ASSY ENET SW MOD, 11P	5	EA	14,019.00	70,095.00
8326	UR	PWR SPLY FOR IC106	10	EA	1,215.00	12,150.00
8326	US	MDLE,SYS MON	5	EA	680.00	3,400.00
		TOTAL lbs (677) Cube (119)				348,080.00

21. CONTRACT QUALITY ASSURANCE
A. ORIGIN: [X] CQA [ ] ACCEPTANCE of listed items has been made to me or under my supervision and they conform to contract, except as noted herein or on supporting documents. 98JUL22 STAN FARLEY S3915A
B. DESTINATION: [ ] CQA [X] ACCEPTANCE of listed items has been made to me or under my supervision and they conform to contract, except as noted herein or on supporting documents.
TYPED NAME AND OFFICE
SIGNATURE OF AUTH GOVT REP
TYPED NAME AND TITLE

22. RECEIVER'S USE
Quantities shown in column 17 were received in apparent good condition except as noted.
DATE RECEIVED | SIGNATURE OF AUTH GOVT REP | TYPED NAME AND OFFICE
* If quantity received by the Government is the same as quantity shipped, indicate by (/) mark; if different, enter actual quantity received below quantity shipped and encircle.

23. CONTRACTOR USE ONLY
A709 320 005
CAT A

Digital DD250

DD FORM 250, NOV 92 | Previous edition may be used. | Designed using Perform Pro, WHS/DIOR, Nov 98

DFAS

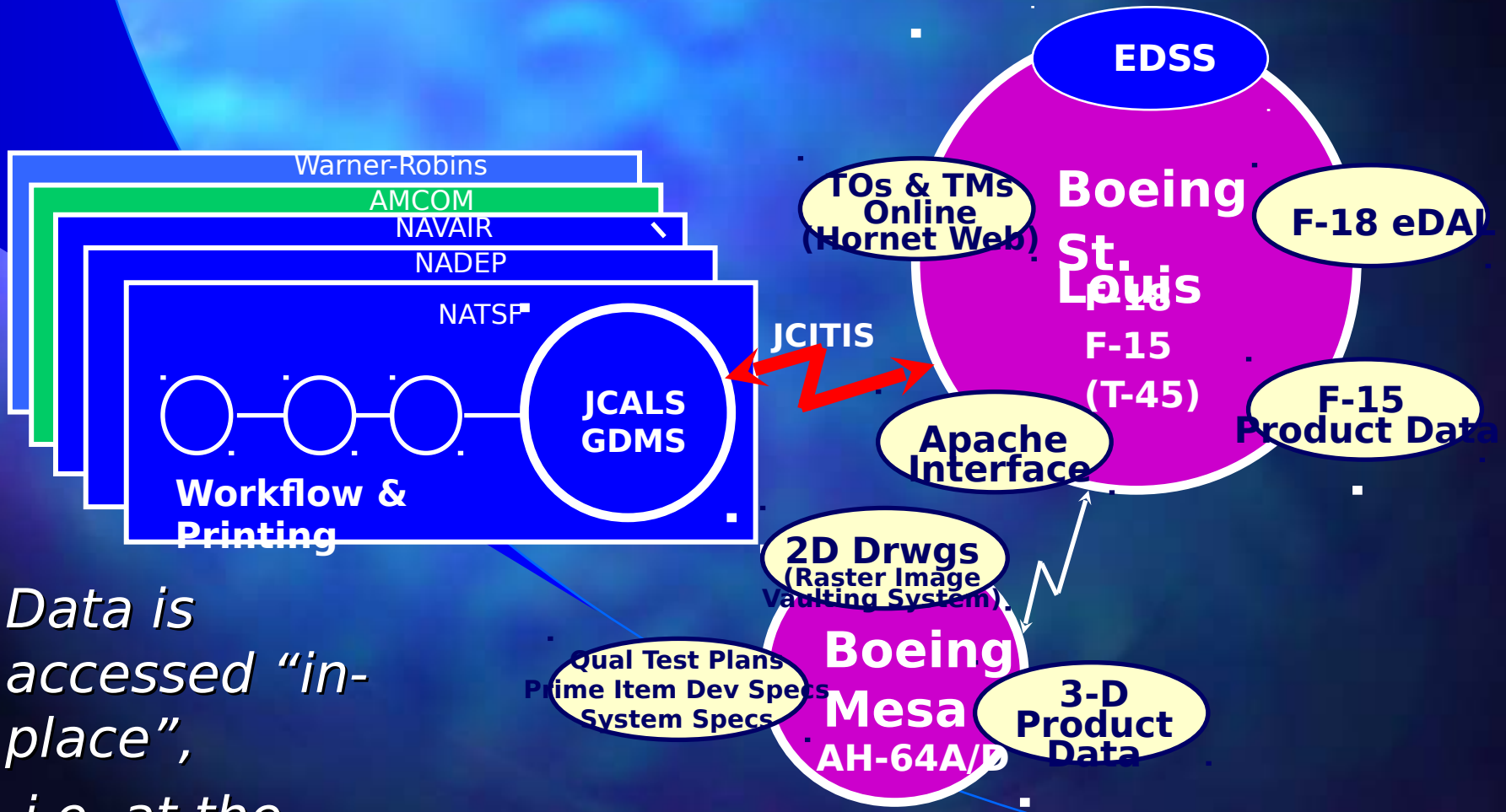
EFT Data In DFAS File Format

Site Acceptance Block 21b *E-Signature*

Contractor *Verification*

CITIS STRATEGIES

Joint CITIS Project



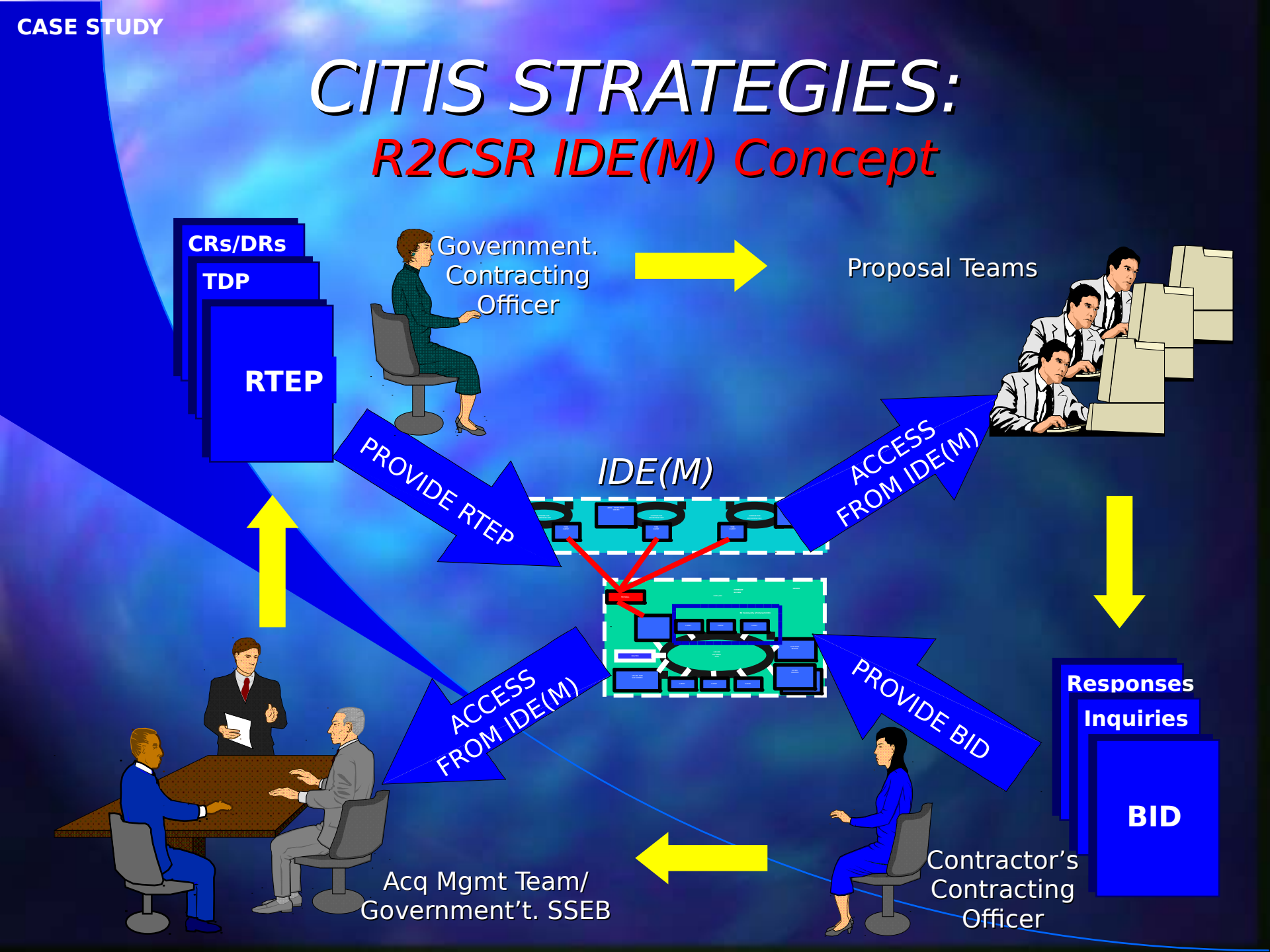
Data is accessed "in-place",

i.e. at the Contractor

CASE STUDY

CITIS STRATEGIES:

R2CSR IDE(M) Concept



CASE STUDY

R2CSR IDE(M)

Requirements & Issues

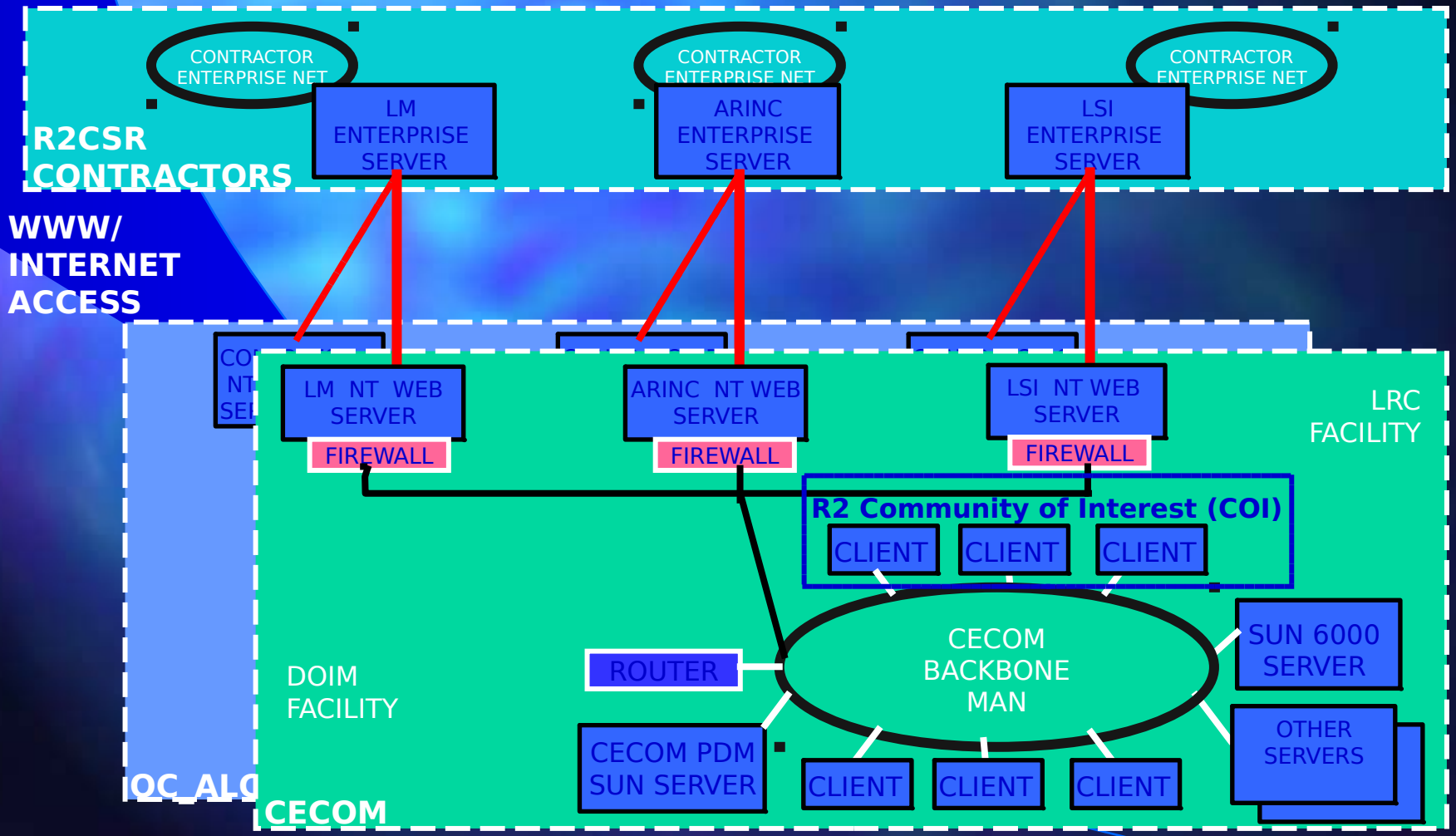
- *Requirements*
  - *Omnibus, RTEP-driven Rapid Response Contract*
  - *Mandated 7-Day Response Time and Need for Task Status Visibility for Ongoing Spares Contract*
  - *Need for Secure, Segregated CITIS Transactions*
- *Issues:*
  - *3 Teams [20+ Subcontractors] With Different Contractor Enterprise Solutions*
  - *2 Government Agencies, Each With Its Own Responsibilities & IDE Solutions/preferences*
  - *Unwillingness And/or Economic Inability to Create a Single Homogenous System*
  - *BOP Solution not Flexible Enough*

CASE STUDY

CITIS STRATEGIES

R2CSD IDE(M)

R2TOP 3-Server Alternative

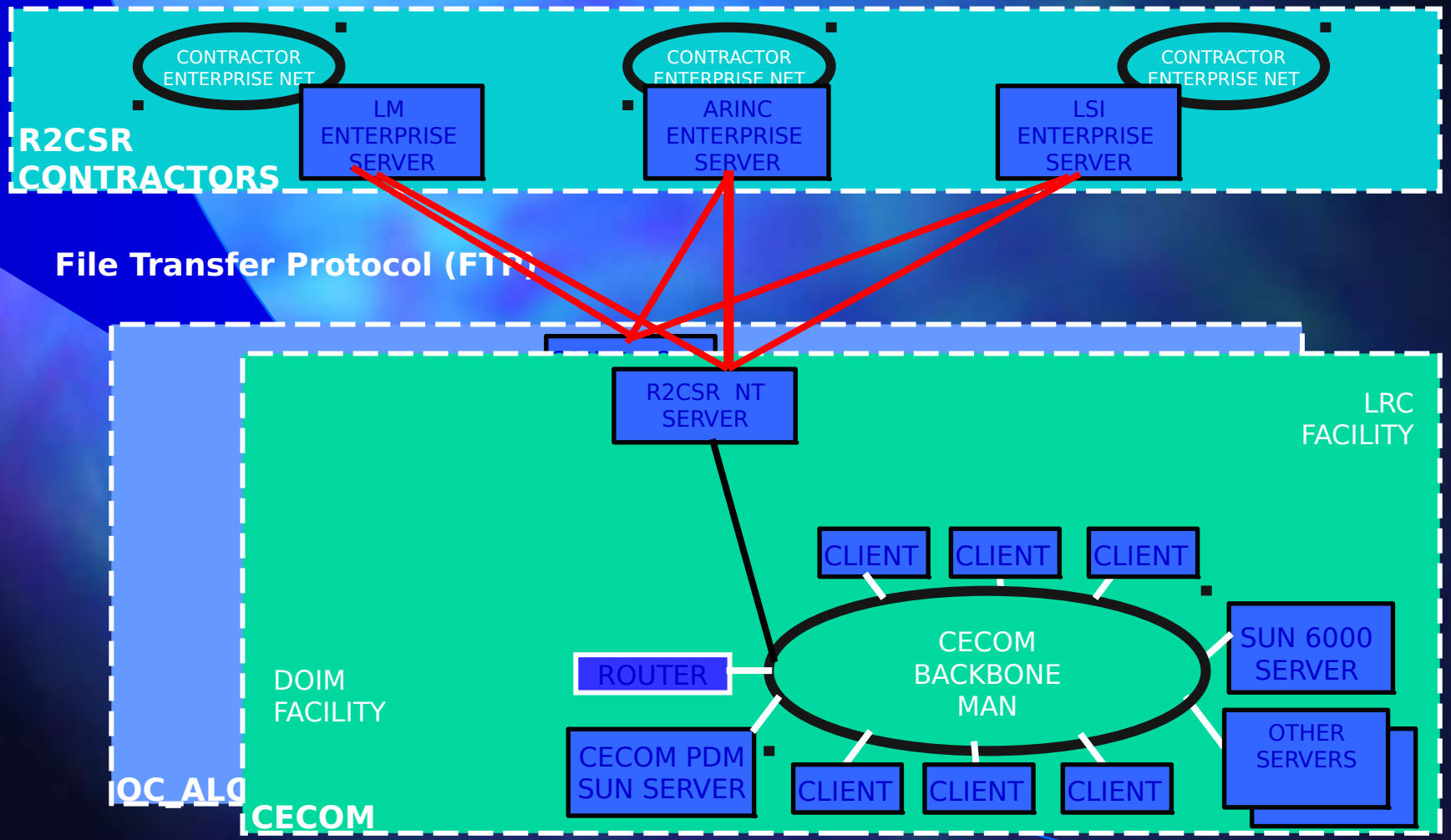


CASE STUDY

CITIS STRATEGIES

R2CSD IDE(M)

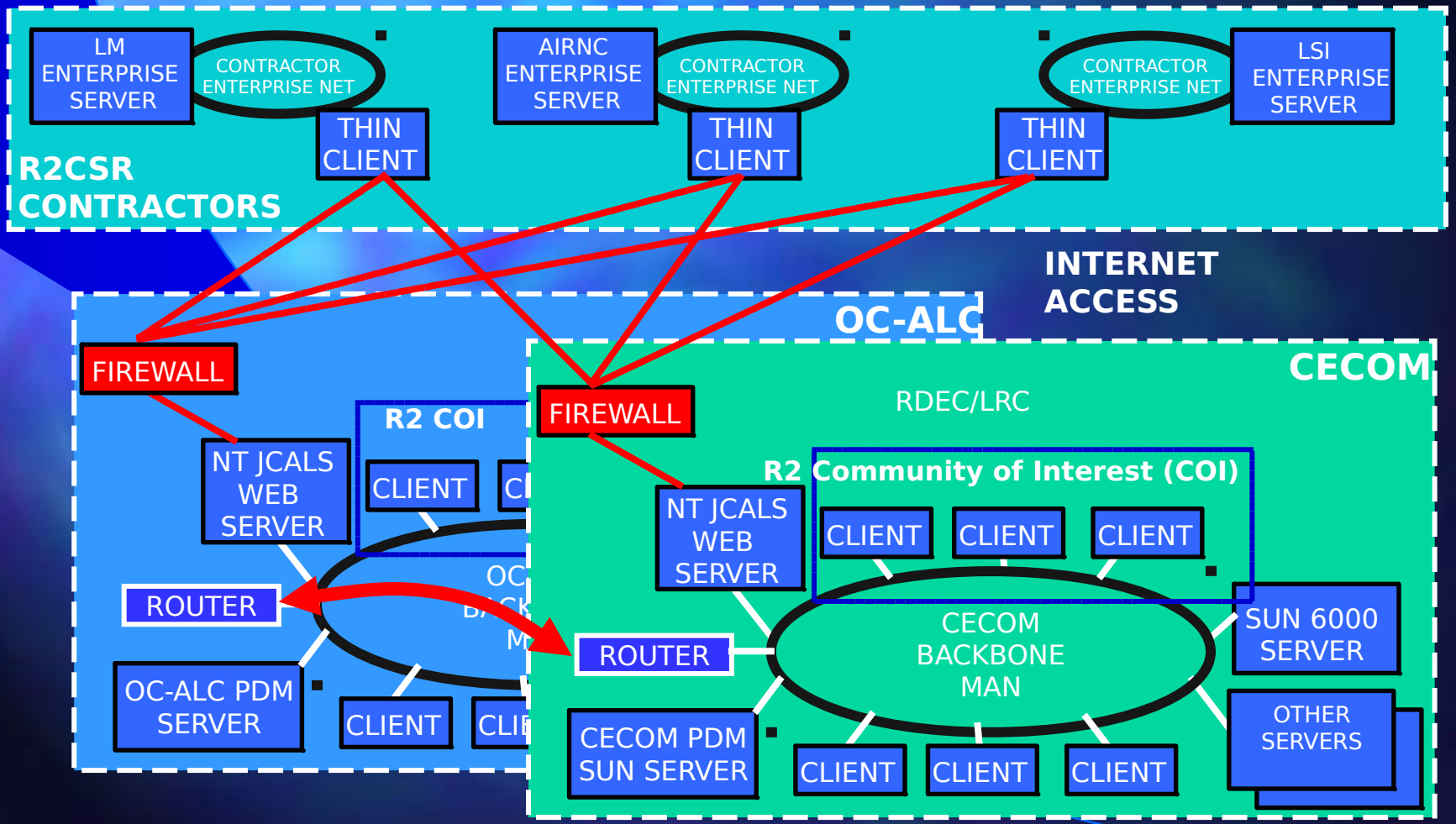
R2TOP 1-Server Alternative



CITIS STRATEGIES

R2CSR IDE(M)

Proposed JCALS Thin Client Workflow Alternative



CASE STUDY

R2CSR IDE(M)
Solution & Lessons Learned

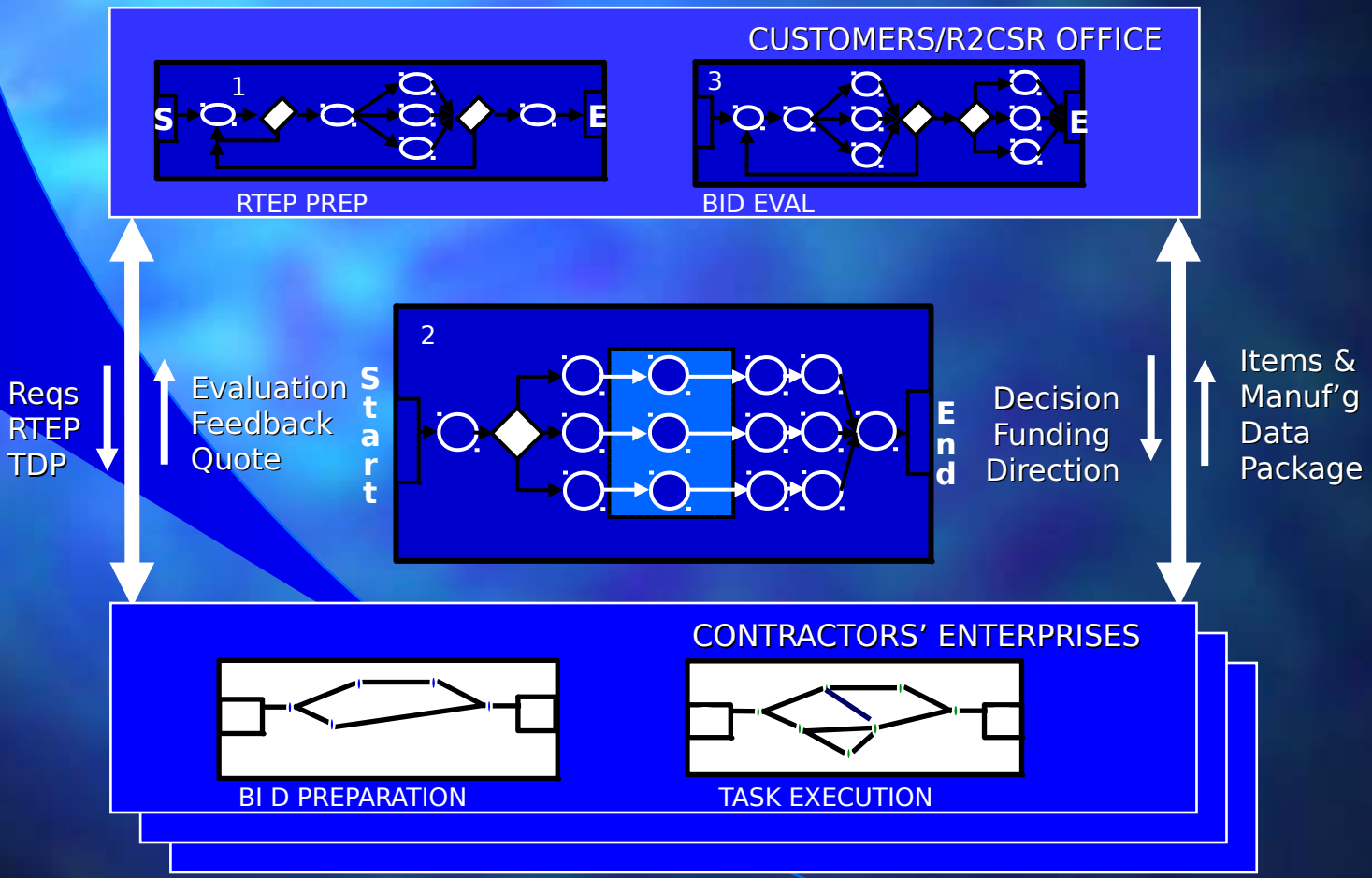
- Requirements
  - Omnibus, TAP-driven Rapid Response Contract
  - Mandated Schedule Response Time and Need for Task Status Visibility for Spares Contract
  - Need for Secure, Segregated CITIS Transactions
- Issues:
  - 3 Teams [20+ Subcontractors] With Different Contractor Enterprise Solutions
  - 2 Government Agencies, Each With Its Own Responsibilities & IDE Solutions/preferences
  - Unwillingness And/or Economic Inability to Create a Single Homogenous System
  - BOP Solution not Flexible

- Proposed Solution:
  - Use JCALS Workflow Manager, Workfolders, and GDMS software capabilities to provide:
    - Secure, Segregated Transactions
    - RTAP/RTEP and deliverable Transmittal and Response Time Logging
      - Task Status Visibility and Metrics
      - Repeatability of Process Thru Use of Workflow Templates
  - Use of JCALS Infrastructure, Featuring the JCALS Web Server, at CECOM RDEC
    - Thin Client Access to Web Server Hosting Workflow/Workfolder
    - Thin Client Allowed Other Sites to Remain With Own Solutions While Providing an “Air-gapped” Bridge to RDEC Acquisition Manager

CASE STUDY

R2CSR IDE(M) PILOT

Workflow Manager-Enabled R2 Process



CECOM Will Employ JCALS To Implement R2CSR Process Among Participants Using Workflow And GDMS

LESSONS LEARNED

- *Complex, Multi-vendor Contract for Several Products Over the Full Life Cycle Is Analogous to a Unified CITIS Solution for the Whole Army*
- *CONOPS for CIDS, like a GCO, must :*
  - *Address Each Phase of the Full Life Cycle*
  - *Provide Flexible CITIS "Access" (Deliver in Place) Vs "Download" (Deliver Indeed) Model to Suit the Acquisition Managers' CM and Budget Needs As Well As Phase of Life Cycle*
  - *Acknowledge That the Contractors' Corporate and Teaming Enterprise Solutions Are Perhaps More Varied Than the Army's; the cost and management of individual solutions are escalating*
  - *Use of a Pervasive, Common Army Infrastructure and Flexible Tools to Minimize Costs and to Leverage Existing Solutions*
  - *Address/Reconcile Communications Bandwidth Issues (of DISN) to Minimize Manifold Individual Comm Costs*
  - *Address the volatile and ever-increasing data format issues*

SUMMARY

- *Unified CITIS Solution for the Whole Army Is Analogous to a Complex, Multi-vendor Contract for Several Products Over the Full Life Cycle Except It's Bigger and the Army Can Reap Greater Savings and Benefits*
- *Paperless Acquisition is a Team Effort*
  - *Acquisition, Logistics, and R&D Centers; IT/IDE Support, Business, KO, and PM/PEO*
  - *Requires a Team Solution*
- *Army CITIS CONOPS Must Implement a Flexible Solution that Embraces all Phases of the Product Life Cycle*
- *Tools, Services, and references are available to facilitate the effort*
- *Existing Infrastructure/IDE Can Support CITIS and Paperless Acquisition*

INTERNET ADDRESSES

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edwarddlugosz@monmouth.com

PAPERLESS ACQUISITION

Selected References URLs:

- *Defense Acquisition Deskbook*
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  http://www.acq.osd.mil/log/lro/toolkit/
- *CECOM Acquisition Center*
  - *http://www.monmouth.army.mil/cecom/ac/ac.html*
- *CECOM Business Opportunity Page*
  - *Http://www.monmouth.army.mil/cecom/ac/ac.html*
  - *http://134.80.11.9/*
- *Electronic Commerce Resource Center*
  http:// www.ecrc.ctc.com